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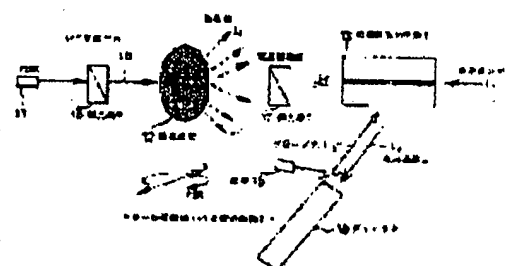
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(54) OPTICAL CT DEVICE

(57)Abstract:

PURPOSE: To obtain the optical CT device of a low cost capable of high precision directional selection and amplification with a simple constitution, and obtaining a reconstitution image of a good quality by executing an interaction with that of a straight traveling component in a transmission light, and taking such an optical arrangement as generates a phase conjugate light.

CONSTITUTION: Light whose directivity is good is radiated to an examinee 12 from a light source 11 as a transmission beam. An optical element 13 is formed by an optical material generated by an optical non-linear polarization, has two opposed faces and from one of two faces, a transmission light of the examinee is made incident. Also, a probe light supply means 15 allows light of the same wavelength as the transmission light to be made incident on the optical element 13 as a probe light, and by an interference with the incident transmission light, a space diffraction grating is formed in the optical element 13. Also, this device is provided with a backward pump light supply means 14 for allowing light of the same wavelength as the transmission light to be made incident on a transmission optical path as a backward pump light from the other face of the two faces of the optical element, diffracting it by the space diffraction grating and generating a phase conjugate light, and a means 18 for detecting the generated phase conjugate light and obtaining transmission data.



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